

**Carbon Dioxide Emissions from Manufacturing by Fuel, 1991, 1994, and 1998**

Fuel Type	SIC <sup>a</sup> Code						Other Mfg.	Total		
	29	28	33	26	20	32				
<b>1991</b>										
<b>CO<sub>2</sub> Emissions (Million Metric Tons)</b>										
Petroleum .....	149.9	42.1	3.4	13.6	3.7	6.4	10.4	229.6		
Natural Gas .....	44.2	102.3	37.4	29.1	27.0	20.1	46.4	306.6		
Coal .....	1.4	25.2	83.2	28.3	14.4	27.9	12.8	193.2		
Electricity .....	19.8	83.1	94.3	38.0	31.9	19.8	160.8	447.8		
Other .....	61.0	9.7	3.0	0.2	0.0	0.0	0.5	74.3		
<b>Total</b> .....	<b>276.3</b>	<b>262.4</b>	<b>221.3</b>	<b>109.2</b>	<b>77.0</b>	<b>74.3</b>	<b>230.8</b>	<b>1,251.4</b>		
Share of Total Value of Shipments (Percent) .....	5.5	11.1	4.9	4.9	14.2	2.2	57.2	100.0		
Share of Total Energy Use (Percent) .....	24.8	23.3	13.2	11.9	5.3	4.5	17.0	100.0		
Share of Total CO <sub>2</sub> Emissions (Percent) .....	22.1	21.0	17.7	8.7	6.2	5.9	18.4	100.0		
<b>1994</b>										
<b>CO<sub>2</sub> Emissions (Million Metric Tons)</b>										
Petroleum .....	174.8	42.3	4.9	15.7	4.3	7.4	10.1	259.4		
Natural Gas .....	42.8	117.7	42.8	30.4	33.3	22.8	53.1	343.0		
Coal .....	0.0	28.5	96.1	28.6	15.6	26.4	12.9	208.2		
Electricity .....	21.9	94.1	89.2	40.4	35.8	22.3	177.0	480.6		
Other .....	60.6	4.4	3.5	1.1	0.4	0.2	1.6	71.8		
<b>Total</b> .....	<b>300.1</b>	<b>287.1</b>	<b>236.5</b>	<b>116.0</b>	<b>89.4</b>	<b>79.1</b>	<b>254.6</b>	<b>1,363.0</b>		
Share of Total Value of Shipments (Percent) .....	4.9	10.4	5.0	4.7	13.3	2.2	59.6	100.0		
Share of Total Energy Use (Percent) .....	24.4	23.6	12.8	11.5	5.9	4.4	17.4	100.0		
Share of Total CO <sub>2</sub> Emissions (Percent) .....	22.0	21.1	17.4	8.5	6.6	5.8	18.7	100.0		
<b>1998</b>										
<b>CO<sub>2</sub> Emissions (Million Metric Tons)</b>										
Petroleum .....	174.8	56.5	3.6	15.1	3.0	6.7	10.4	270.1		
Natural Gas .....	53.2	127.7	47.9	31.1	31.8	23.4	59.7	374.9		
Coal .....	0.0	26.9	94.3	25.8	13.6	27.7	10.0	198.3		
Electricity .....	22.9	103.2	101.8	45.6	41.8	24.4	221.9	561.6		
Other .....	69.5	4.9	3.4	0.8	0.1	0.7	1.5	80.9		
<b>Total</b> .....	<b>320.4</b>	<b>319.2</b>	<b>251.0</b>	<b>118.4</b>	<b>90.4</b>	<b>82.9</b>	<b>303.6</b>	<b>1,485.8</b>		
Share of Total Value of Shipments (Percent) .....	4.3	9.6	4.6	4.0	11.9	2.2	63.4	100.0		
Share of Total Energy Use (Percent) .....	25.2	24.0	12.2	10.8	5.2	4.1	18.4	100.0		
Share of Total CO <sub>2</sub> Emissions (Percent) .....	21.6	21.5	16.9	8.0	6.1	5.6	20.4	100.0		

<sup>a</sup>Standard Industrial Classification.

Notes: Totals may not equal sum of components due to independent rounding. To calculate intensity and consumption values, electricity was calculated as primary electricity: 10,436 Btu per kilowatthour for 1991, 10,316 for 1994, and 10,346 for 1998. These conversion factors represent the average energy input to the generation process for fossil-fired utility plants in the United States. See Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(2002/09) (Washington, DC, September 2002), Table A6.

Sources: Energy Information Administration, Form EIA-846, "Manufacturing Energy Consumption Survey," and Form EIA-810, "Monthly Refinery Report" (1991, 1994, and 1998); and U.S. Department of Commerce, Bureau of Economic Analysis, Industry Economics Division.